200-TYPE SELECTORS
OPERATION TEST
PANEL MACHINE SWITCHING OFFICES

1. GENERAL

1.01 This section outlines a method of testing No. 200-type selectors for irregularities in operation.

1.02 An understanding of the operation of No. 200-type selectors is required in the application of this routine.

1.03 This test does not apply to selectors which are so wired into their respective circuits that they cannot be rotated conveniently under self-interruptions. These selectors should be checked as required in accordance with methods outlined in Section 026-706-701.

2. APPARATUS

2.01 One No. 893 Single Conductor Cord (six feet long) equipped with a No. 360 Tool (socket type cord tip) on each end.

2.02 Two No. 365 Tools (suspender clips).

2.03 One No. 525 (or equivalent high resistance) Receiver with Cords and Test Picks, for line switch test.

3. METHOD

Line Switches

3.01 Make routine tests on line switches of high calling rate lines only during periods of light traffic

3.02 Do not apply tests to line switches while the associated subscriber's line is in use on either an outgoing or incoming call. The former is indicated by the line switch being in an off-normal position and the latter by the presence of battery on the feeder brush, nearest the index wheel of the switch.

3.03 Connect one of the clips of the No. 893 cord to ground near the line switch under test and, if the line switch is normal and the feeder brush tests clear of battery, proceed as follows:

3.04 Momentarily touch the free clip of the cord to the "winding" terminal of the interrupter on the selector under test. On the removal of the clip, the selector should make one-half of a revolution. Repeat this test, observing the selector for slowness in starting and any irregularity in operation.

3.05 Attach the free clip of the cord to the other terminal of the interrupter. This should cause the selector to rotate. Observe the selector for any irregularity in operation and for excessive sparking at the interrupter contacts. When the selector has operated satisfactorily through from ten to fifteen revolutions. remove the clip from the interrupter terminal.

> *Note:* A slight hesitation, or momentary change of speed at or about the 22nd terminal is not considered unsatisfactory, if it recurs regularly on every half revolution.

Other No. 200-Type Selectors

3.06 Remove from service the circuit on which the test is to be made and connect one of the clips of the No. 893 cord to ground* near the selector to be tested. Apply tests outline in paragraphs 3.7 and 3.8 to selectors which restore to normal. Apply the test outlined in paragraph 3.8 to selectors which have no normal position.

> **Note:* Connect the clip of the No. 893 cord to battery for selectors having their magnets wired to ground.

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3.07 Momentarily touch the free clip of the cord to the "winding" terminal of the interrupter on the selector under test. On the removal of the clip, the selector should rotate to its next normal position. Repeat this test once for each normal position of the selector and observe the selector for slowness in starting and any irregularity in operation.

3.08 Attach the free clip of the cord to the interrupter terminal that is not strapped to the magnet winding. This should cause the selector to rotate. Observe the selector for any irregularity in operation and for excessive sparking at the interrupter contacts. When the selector has operated satisfactorily through from ten to fifteen revolutions, remove the clip from the interrupter terminal.

Note: A slight hesitation, or momentary change of speed at or about the 22nd terminal is not considered unsatisfactory, if recurs regularly on every half revolution.

3.09 On completion of the test, restore the circuit to service.

4. REPORTS

4.01 The required record of this routine should be entered on the proper form.